

EXHIBIT A

From: Seeve, Brian
 To: Anna Porto
 Cc: Singular; Ercolini, Michael; kvpsingular@keker.com; abhansali@kblfirm.com; WGS-Singular v. Google; mkwun@kblfirm.com
 Subject: Re: Singular Computing LLC v. Google LLC; Case No. 1:19-cv-12551 FDS | Renewed motion to compel
 Date: Monday, May 17, 2021 3:56:07 PM

Anna -

Attached is the screenshot of the interactive computer terminal that appeared in our opposition brief.

- Brian

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Terminal

COMMAND: ./mult bf16 fp32

BF16 multiply.
FP32 outputs.
Progress (of 64) 0-----1-----2-----3-----4-----5-----6---
Done.
Total number of inputs checked = 4294967296(      100000000)
Valid inputs don't produce NaN, Overflow (Inf), or Underflow (i.e. 0 when exact is not 0).

Number of Valid Inputs to Multiply = 3369741239(      c8da2bb7)
error range [ 50.00%,100.00%), valid inputs in range 0.08%(2750546), in or above range= 0.08%
error range [ 20.00%, 50.00%), valid inputs in range 0.16%(5461018), in or above range= 0.24%
error range [ 10.00%, 20.00%), valid inputs in range 0.19%(6406715), in or above range= 0.43%
error range [ 5.00%, 10.00%), valid inputs in range 0.22%(7247952), in or above range= 0.65%
error range [ 2.00%, 5.00%), valid inputs in range 0.37%(12350786), in or above range= 1.02%
error range [ 1.00%, 2.00%), valid inputs in range 3.63%(122356186), in or above range= 4.65%
error range [ 0.50%, 1.00%), valid inputs in range 50.75%(1710072241), in or above range=55.39%
error range [ 0.20%, 0.50%), valid inputs in range 37.29%(1256688117), in or above range=92.69%
error range [ 0.10%, 0.20%), valid inputs in range 5.46%(184012895), in or above range=98.15%
error range [ 0.05%, 0.10%), valid inputs in range 1.37%(46304288), in or above range=99.52%
error range [ 0.02%, 0.05%), valid inputs in range 0.39%(13261963), in or above range=99.92%
error range [ 0.01%, 0.02%), valid inputs in range 0.06%(1993827), in or above range=99.98%
error range [ 0.00%, 0.01%), valid inputs in range 0.02%(834705), in or above range=100.00%
Of all possible inputs (more than valid inputs)
NaN 0.78%(33488896 counts)
Inf 12.52%(537754624 counts)
Und 8.24%(353982537 counts)

Summary for spreadsheet. Inputs bf16. Output fp32.
4.65%
55.39%
92.69%
98.15%
99.52%
0.78%
12.52%
8.24%

Ignore: nan

COMMAND: █

```

On May 17, 2021, at 12:17 AM, Anna Porto <aporto@keker.com> wrote:

Michael,

Please provide a response to our email below.

Thanks,
 Anna

From: Anna Porto
 Sent: Friday, May 14, 2021 3:26 PM
 To: 'singular@princetonobel.com' <singular@princetonobel.com>; 'Ercolini, Michael' <mercolini@princetonobel.com>
 Cc: kvp-singular <kvpsingular@keker.com>; 'Asim Bhansali' <abhansali@kblfirm.com>; 'wgs-singular.v.google@wolfgreenfield.com' <wgs-singular.v.google@wolfgreenfield.com>; 'mkwun@kblfirm.com' <mkwun@kblfirm.com>
 Subject: RE: Singular Computing LLC v. Google LLC; Case No. 1:19-cv-12551 FDS | Renewed motion to compel

Michael,

I understand that during the meet-and-confer today, you said that Singular would let us know over the weekend whether Singular will agree to produce the screenshot of the FAC testing code output and the spreadsheet that is excerpted in the FAC (if you have it). We look forward to your response.

Thanks,
Anna

From: Anna Porto

Sent: Wednesday, May 12, 2021 10:40 AM

To: singular@princelobel.com

Cc: kvp-singular@keker.com; Asim Bhansali <abhansali@kblfirm.com>; wgs-singularv.google@wolfgreenfield.com; mkwun@kblfirm.com

Subject: Singular Computing LLC v. Google LLC; Case No. 1:19-cv-12551 FDS | Renewed motion to compel

Counsel,

In your opposition to Google's renewed motion to compel, you included a screenshot of the FAC testing code output. Will you agree to produce a copy of that screenshot? Please let us know by tomorrow, May 13th.

Thanks,
Anna

Anna Porto

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